

Question

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Section 10.0 - Exponentials and Logarithms

Instructions

Please work all homework questions and clearly label / place your answers in the boxes (or parenthesis) provided. If you have questions, please feel free to email me at Joshua.Patterson@tamuc.edu

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1. Question Details JModd7 10.0A.001. [1666806]
- Find the value of v .
- $$v = \log_6 36$$
- $v =$
-
2. Question Details JModd7 10.0A.004. [1666735]
- Find the value of v .
- $$v = \log_2 \left(\frac{1}{2} \right)$$
- $v =$
-
3. Question Details JModd7 10.0A.005.CMI. [1666805]
- Find the value of u .
- $$\log_2 u = 4$$
- $u =$
-
4. Question Details JModd7 10.0A.007. [1666817]
- Find the value of u .
- $$\log_5 u = 0$$
- $u =$
-
5. Question Details JModd7 10.0A.008. [1666825]
- Find the value of u .
- $$\log_5 u = 1$$
- $u =$

6. Question Details

JModd7 10.0A.009.CMI. [1666765]

Find the value of b .

$$\log_b 4 = 2$$

$$b = \boxed{}$$

7. Question Details

JModd7 10.0A.012. [1666752]

Find the value of b .

$$\log_b 25 = -2$$

$$b = \boxed{}$$

8. Question Details

JModd7 10.0A.013.CMI. [1666827]

Rewrite the logarithm as an exponential equation. (Use capital letters for variables P and Q .)

$$P = \log_b Q$$

9. Question Details

JModd7 10.0A.020. [1666812]

Rewrite the exponential equation as a logarithm. (Use capital letters for variables U and Y .)

$$b^U = Y$$

10. Question Details

JModd7 10.0A.027. [1666732]

Use a calculator to find each value. (Round your answers to eight decimal places.)

(a) $e^{1.5}$

(b) $10^{1.5}$

11. Question Details

JModd7 10.0A.030. [1666764]

Use a calculator to find each value. (Round your answers to eight decimal places.)

(a) $3e^{0.07}$

(b) $3(10^{0.07})$

12. Question Details

JModd7 10.0A.032. [1666809]

Use a calculator to find each value. (Round your answers to eight decimal places.)

(a) $\frac{1}{e^{2.5}}$

(b) $\frac{1}{10^{2.5}}$

13. Question Details

JModd7 10.0A.036. [1666836]

Use a calculator to find each value. (Round your answers to eight decimal places.)

(a) $\frac{e^{0.074}}{7e^{0.061}}$

(b) $\frac{10^{0.074}}{7(10^{0.061})}$

14. Question Details

JModd7 10.0A.041. [1666733]

Use a calculator to find each value. (Round your answers to eight decimal places.)

(a) $\ln 2.15$

(b) $\log 2.15$

15. Question Details

JModd7 10.0A.046. [1666772]

Use a calculator to find each value. (Round your answers to eight decimal places.)

(a) $\ln(e^{3.2})$

(b) $\log(10^{3.2})$

16. Question Details

JModd7 10.0A.047. [1666801]

Use a calculator to find each value. (Round your answers to eight decimal places.)

(a) $\ln(4e^{4.4})$

(b) $\log [4(10^{4.4})]$

17. Question Details

JModd7 10.0A.050. [1666760]

Use a calculator to find each value. (Round your answers to eight decimal places.)

(a) $e^{\ln 3.7}$

(b) $10^{\log 3.7}$

18. Question Details

JModd7 10.0A.052. [1666846]

Use a calculator to find each value. (Round your answers to eight decimal places.)

(a) $e^{6 \ln 2}$

(b) $10^{6 \log 2}$

19. Question Details

JModd7 10.0A.054.CMI. [1666793]

Use a calculator to find each value. (Round your answers to eight decimal places.)

(a) $\ln(5)$

(b) $\ln(5^2)$

(c) $\ln(5^3)$

20. Question Details

JModd7 10.0A.057. [1666734]

Put the following in numerical order, from smallest to largest: $e^{2.7}$, $\ln 2.7$, $10^{2.7}$, $\log 2.7$.

(smallest value)

(largest value)

Assignment Details